IN THE CLAIMS

Please amend claims 16 and 17 are follows:

1. (Previously Presented) An organic light emitting diode (OLED), comprising:

a substrate having a first electrode layer formed thereon;

an insulator layer formed on the substrate and forming a channel in a predetermined pattern;

an organic polymer layer formed based on the channel and having at least an emission layer;

a barrier formed at either side of the insulator layer for preventing ink for the organic polymer layer from running out of the channel; and

a second electrode layer formed on the organic polymer layer.

2. (Original) The OLED according to claim 1, wherein the barrier extends lengthwise in a direction perpendicular to the channel.

3. (Original) The OLED according to claim 1, wherein the barrier extends lengthwise in a direction inclined with respect to the channel.

4. (Original) The OLED according to claim 1, wherein the barrier is spaced by a predetermined distance from a lateral surface of a neighboring insulator layer.

5. (Original) The OLED according to claim 1, wherein the barrier extends to a lateral surface of a neighboring insulator layer.

6. (Previously Presented) The OLED according to claim 1, wherein the barrier comprises:

at least one first barrier for preventing the polymer ink from running out of the channel; and

at least one second barrier for preventing the polymer ink from running in from neighboring channels.

7. (Original) The OLED according to claim 6, wherein the first and second barriers incline lengthwise with respect to the channel, the first and second barriers extending in opposite directions.

8. (Original) The OLED according to claim 7, wherein the first barrier extends lengthwise toward a center of the channel, and the second barrier extends outward from the channel.

9. (Original) The OLED according to claim 1, wherein a height of the barrier is no less than 50 nm and no greater than the height of the insulator layer.

10. (Previously Presented) The OLED according to claim 1, further comprising at least one blocking member for interrupting outflow of the organic polymer layer and provided substantially at a center of two ends of each channel.

11. (Previously Presented) The OLED according to claim 10, wherein a shape of said at least one blocking member is one of a cuboid, a cylinder, a pyramid, a wedge and a V-shape.

12. (Previously Presented) The OLED according to claim 11, wherein said at least one blocking member includes at least two elements in a wedge shape, centers of the wedge being opposite to each other.

13. (Previously Presented) The OLED according to claim 10, wherein a width of said at least one blocking member is no greater than a width of the channel.

14. (Original) The OLED according to claim 10, wherein a height of the barrier is no less than 50 nm and no greater than a height of the insulator layer.

15. (Original) The OLED according to claim 1, wherein the polymer organic layer is formed by coating a liquid polymer organic material along the channel by inkjet printing.

16. (Currently Amended) The OLED according to claim 1, wherein the barrier is formed on the insulator layer and extends outwardly from at least one of two sides of the insulator layer for preventing ink for the organic polymer layer from running out of the channel.

17. (Currently Amended) An organic light emitting diode (OLED), comprising:

a substrate having a first electrode layer formed thereon;

an insulator layer formed on the substrate and forming a channel in a predetermined pattern;

an organic polymer layer formed based on the channel and having at least an emission layer;

a barrier formed on the insulator layer; and

a second electrode layer formed on the organic polymer layer;

wherein the barrier comprises at least one first barrier for preventing ink for the organic polymer layer from running out of the channel[[;]] and at least one second barrier for preventing the ink from running in from neighboring channels.

18. (Previously Presented) The OLED according to claim 17, wherein the first and second barriers incline lengthwise with respect to the channel, the first and second barriers extending in opposite directions.

19. (Previously Presented) The OLED according to claim 18, wherein the first barrier extends lengthwise toward a center of the channel, and the second barrier extends outward from the channel.

20. (Previously Presented) An organic light emitting diode (OLED), comprising:

a substrate having a first electrode layer formed thereon;

an insulator layer formed on the substrate and forming a channel in a predetermined pattern;

an organic polymer layer formed based on the channel and having at least an emission layer;

a barrier formed on the insulator layer for preventing ink for the organic polymer layer from running out of the channel;

a second electrode layer formed on the organic polymer layer; and

at least one blocking member for interrupting outflow of the organic polymer layer and provided substantially at a center of two ends of each channel;

wherein said at least one blocking member includes at least two elements in a wedge shape, centers of the wedge being opposite to each other.